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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/708,378	02/27/2004	Huilong Zhu	FIS920030371US1	2377
30743	7590 05/17/2005		EXAM	INER
WHITHAM, CURTIS & CHRISTOFFERSON, P.C. 11491 SUNSET HILLS ROAD SUITE 340 RESTON, VA 20190			NGO, NGAN V	
			ART UNIT	PAPER NUMBER
			2818	
			DATE MAILED: 05/17/200:	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/708,378	ZHU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ngan Ngo	2818			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat  - If the period for reply specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by  - Any reply received by the Office later than three months after the  - earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a retion.  s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT y statute, cause the application to become AB.	ply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	30 March 2005.				
• • •	· · · · · · · · · · · · · · · · · · ·				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) 16-20 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-5,10,11 and 15 is/are rejected.  7) Claim(s) 6-9 and 12-14 is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Extended The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the control of the oath or declaration is objected to by the control of the oath or declaration is objected.	accepted or b) objected to be to the drawing(s) be held in abeyand correction is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received.  uments have been received in Apele priority documents have been abureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-9		ummary (PTO-413) )/Mail Date			
<ol> <li>Notice of Draitsperson's Patent Drawing Review (P10-9</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 0305.</li> </ol>		formal Patent Application (PTO-152)			

The election filed March 30, 2005 has been entered and made of record as paper no. 0305.

Applicant's election without traverse of claims 1-15 in the reply filed on March 30, 2005 is acknowledged.

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Krivokapic et al.

Krivokapic discloses an field effect transistor comprising a gate structure (42) and a discontinuous film (30) of material within layer of semiconductor material (14) and having a discontinuity aligned with the gate structure.

In re claim 2, Krivokapic also discloses the self-aligned method but no patentable weight is given to the method of making a semiconductor device in claims drawn to structure. A "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17(footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this

issue); In re Marosi et al, 218 USPQ 289; and particularly In re Thorpe, 227 USPQ 964, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear.

In re claims 3 and 4, the insulator film (30) in Krivokapic can inherently be a stressed film.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krivokapic et al in view of Bae.

Krivokapic discloses all the subject matter discussed above. However, Krivokapic does not disclose about void formed in the semiconductor material. Bae disclose a field effect transistor having void (35) formed in the semiconductor material to suppress floating body effects. Note that void is also formed in porous silicon 23b in Bae.

Therefore, it would have been obvious to one of ordinary skill in the art to form void in the semiconductor material in Krivokapic in order to suppress floating body effects as taught by Bae.

Claim 13 is object to because "said stepped or staircase portion" has no antecedent basis.

Claims 6-9, 12, and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The other references are cited to show other structures pertinent to Applicants' disclosure.

Paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at <a href="http://www.uspto.gov/ebc/index.html">http://www.uspto.gov/ebc/index.html</a> or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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Ngan Van Ngo Primary Examiner

Ngan Ngo

May 12, 2005